

SAMBUR, G.N.

Work of the Kiev Branch of the All-Union Society of Soil Scientists.

Pochvovedenie no.12:96-97 D'58.

(Ukraine--Soil research)

(Ukraine--Soil research)

SAMBUR, G.N.; KOVALENKO, I.I.

Improved and efficient utilization of saline lowland soils in southern Polesye and the northern forest-steppe of the Ukraine. Pochvovedenie no.12:36-44 D 159.

(MIRA 13:4)

1. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya.
(Ukraine--Alkali lands)

LOZENKO, V.T.; SAMBUR, G.N., kand.sel'skokhoz.nauk

Role of soil investigations in raising the standards of agriculture on the Lenin Collective Farm. Zemledelie 8 no.7:26-34 Jl '60.

(MIRA 13:9)

1. Predsedatel' kolkhoza imeni Lenina (for Lozenko). 2. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya.

(Borodyanka District--Agriculture)

# SAMBUR, G. N.

"Melioration Of Alkali Soils In Ukrainian SSR".

report submitted for the 7th Congress of International Society of Soil Science Madison, Wisconsin, 15-23 Aug 60.

SAMBUR, Grigoriy Nikitovich [Sambur, H.M.]; SKRIPNIK, P.S.

[Skrypnyk, P.S.], red.; KALASHNIKOVA, O.G.[Kalashnykova, O.H.], tekhn. red.

[Improvement and use of Solonets soils] Polipshennia ta vykorystannia solontsevykh hruntiv. Kyiv, Derzhsil'hopvydav URSR, 1962. 51 p.

(Ukraine—Solonetz soils)

SAMBUR, G.N.; Prinimeli uchastiye: KATERINICH, T.D.; YUNIK, S.M.

Mobility of exchangeable sodium and recommended norms for the use of gypsum in the improvement of Solonetz soils. Pochvovedenie no.11:35-46 N 163. (MIRA 16:12)

1. Ukrainskiy nauchno-issledovatel'skiy institut zemledeliya.

YUKHIMCHUK, F.P.[IUkhymchuk, F.P.], otv. red.; VISHINSKIY, O.M.

[Vyshyns'kyi, O.M.], red.; GOLOMBA, R.A.[Holomba, R.A.]

red.; DMITRENKO, P.O.[Dmytrenko, P.O.], doktor sel'khoz.

nauk, red.; IL'YASHENKO, M.G.[Illiashenko, M.H.], red.;

KOLOBOV, O.M., red.; KUKSIN, M.V., red.; LAZURSKIY, O.V.

[Lazurs'kyi, O.V.], kand. sel'khoz. nauk, red.; POPOV,

F.A., red.; SAMBUR, G.M.[Sambur, H.M.], red.; SAMTSEVICH,

S.A.[Samtsevych, S.A.], red.; FFDOROVA, N.A., kand.sel'khoz.

nauk. red.; YASHOVSKIY, I.V.[IAshovs'kyi, I.V.], red.

[Nutrition and fertilizers of farm crops] Zhyvlennia ta udobrennia sil's'kohospodars'kykh kul'tur. Kiev, Urozhai, 1964. 137 p. (MIRA 17:10)

1. Ukrains'kyy naukovo-doslidnyy instytut zemlerobstva.

LYASHENKO, V.I.; LITOVCHENKO, V.G. [Lytovchenko, V.H.]; SAMBUR, I.G. [Sambur, I.H.]

Surface states of germanium. Ukr.fis.zhur. 4 no.4:465-471
J1-Ag '59. (MIRA 13:4)

1. Institut fiziki AN USSR, kafedra poluprovodnikov Kiyevskogo gosudarstvennogo universiteta.
(Germanium)

ACT NR. AF6006500 (A) SOURCE CODE: UR/0152/65/000/009/0081/0082  AUTHOR: Sambur, Kh. O.  ORG: Azerbaydshan Institute of Petroleum and Chemistry im. M. Azizbekov  (Azerbaydshanskiy institut nefti 1 khimi1)  TITLE: Carbon forming propensity of a blend of DL diesel fuel and light gas oil, obtained by catalytic cracking of crude, and type of wear of a high-speed D-6 diesel operating on these fuel blends  SOURCE: IVUZ. Neft' i gas, no. 9, 1965, 81-82  TOPIC TAGS: fuel deposit formation, fuel mixing, diesel fuel, petroleum fuel, diesel engine, internal combustion engine, engine cylinder, combustion deposit  ABSTRACT: The combustion parameters of a D-6 diesel engine operating on DL regular diesel fuel and light gas oil blends and on DL regular diesel fuel, and the carbon forming propensity of the fuel blends at 0 = 30° angle of savance of feed in the cylinder and of the DL regular diesel fuel at 0 = 27° were investigated. The experimental results show that 1) only the combustion parameters of a DL + 30% light gas oil blend approximately corresponds to the combustion parameters of regular DL fuel at 0 = 27° and consequently is recommended as the optimal blend for practical  Cord 1/2  UDC: 665.546, A:662.613.001.5	L 29971-66 EWT(m)/T DJ/WE	
ORG: Azerbaydzhan Institute of Petroleum and Chemistry im. M. Azisbekov  (Azerbaydzhanskiy institut nefti i khimii)  TITLE: Carbon forming propensity of a blend of DL diesel fuel and light gas oil, obtained by catalytic cracking of crude, and type of wear of a high-speed D-6 diesel operating on these fuel blends  SOURCE: IVUZ. Neft' i gas, no. 9, 1965, 81-82  TOPIC TAGS: fuel deposit formation, fuel mixing, diesel fuel, petroleum fuel, diesel engine, internal combustion engine, engine cylinder, combustion deposit  ABSTRACT: The combustion parameters of a D-6 diesel engine operating on DL regular diesel fuel and light gas oil blends and on DL regular diesel fuel, and the carbon forming propensity of the fuel blends at 0 = 30° angle of advance of feed in the cylinder and of the DL regular diesel fuel at 0 = 27° were investigated. The experimental results show that 1) only the combustion parameters of a DL + 30% light gas oil blend approximately corresponds to the combustion parameters of regular DL fuel at 0 = 27° and consequently is recommended as the optimal blend for practical	ACC NR: AP6006500 (A) SOURCE CODE: UR/0152/65/000/009/008	31/0082
(Azerbaydzhanskiy institut nefti i khimii)  TITLE: Carbon forming propensity of a blend of DL diesel fuel and light gas oil, obtained by catalytic cracking of crude, and type of wear of a high-speed D-6 diesel operating on these fuel blends  SOURCE: IVUZ. Neft' i gas, no. 9, 1965, 81-82  TOPIC TAGS: fuel deposit formation, fuel mixing, diesel fuel, petroleum fuel, diesel engine, internal combustion engine, engine cylinder, combustion deposit  ABSTRACT: The combustion parameters of a D-6 diesel engine operating on DL regular diesel fuel and light gas oil blends and on DL regular diesel fuel, and the carbon forming propensity of the fuel blends at 0 = 30° angle of advance of feed in the cylinder and of the DL regular diesel fuel at 0 = 27° were investigated. The experimental results show that 1) only the combustion parameters of a DL + 30% light gas oil blend approximately corresponds to the combustion parameters of regular DL fuel at 0 = 27° and consequently is recommended as the optimal blend for practical	the same transfer of the same transfer of the same same transfer of the	53
TITLE: Carbon forming propensity of a blend of DL diesel fuel and light gas oil, obtained by catalytic cracking of crude, and type of wear of a high-speed D-6 diesel operating on these fuel blends  SOURCE: IVUZ. Neft! i gas, no. 9, 1965, 81-82  TOPIC TAGS: fuel deposit formation, fuel mixing, diesel fuel, petroleum fuel, diesel engine, internal combustion engine, engine cylinder, combustion deposit  ABSTRACT: The combustion parameters of a D-6 diesel engine operating on DL regular diesel fuel and light gas oil blends and on DL regular diesel fuel, and the carbon forming propensity of the fuel blends at 0 = 300 angle of advance of feed in the cylinder and of the DL regular diesel fuel at 0 = 270 were investigated. The experimental results show that 1) only the combustion parameters of a DL + 30% light gas oil blend approximately corresponds to the combustion parameters of regular DL fuel at 0 = 270 and consequently is recommended as the optimal blend for practical	ORG: Azerbaydzhan Institute of Petroleum and Chemistry im. M. Azizbekov	$\mathcal{P}$
contained by catalytic cracking of crude, and type of wear of a high-speed of diesel operating on these fuel blends  SOURCE: IVUZ. Neft' i gas, no. 9, 1965, 81-82  TOPIC TAGS: fuel deposit formation, fuel mixing, diesel fuel, petroleum fuel, diesel engine, internal combustion engine, engine cylinder, combustion deposit  ABSTRACT: The combustion parameters of a D-6 diesel engine operating on DL regular diesel fuel and light gas oil blends and on DL regular diesel fuel, and the carbon forming propensity of the fuel blends at 0 = 30° angle of advance of feed in the cylinder and of the DL regular diesel fuel at 0 = 27° were investigated. The experimental results show that 1) only the combustion parameters of a DL + 30% light gas oil blend approximately corresponds to the combustion parameters of regular DL fuel at 0 = 27° and consequently is recommended as the optimal blend for practical	(Azerbaydzhanskiy institut nefti i khimii)	
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Card 1/2 UDC: 665, 546, 4:662,613,001.5	diesel fuel and light gas oil blends and on DL regular diesel fuel, and the forming propensity of the fuel blends at 0 = 30° angle of advance of feed in cylinder and of the DL regular diesel fuel at 0 = 27° were investigated. The experimental results show that 1) only the combustion parameters of a DL + 30° oil blend approximately corresponds to the combustion parameters of regular diesel fuel at 0 = 27° were investigated.	n the he 30% light ular DL
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motor capacity, 3) an addition of light gas oil to regular DL in excess of O% sharply increases the carbon forming propensity of the blend, 4) during 14 hrs ingine operation the rate of engine wear gradually increases and afterwards mes constant changing almost in proportion to the time of engine operation, 5) the increase in iron content per time unit of engine operation on DL + 30% t gas oil is 5% higher than for DL regular diesel fuel as a result of the larger e of advance of feed, but this higher increase in iron content cannot appreciably ct the motor capacity. Orig. art. has: 1 formula and 2 figures.  CODE: 21/ SUBM DATE: 28Jun65	oses, 2) an addition of 20-30% light on forming propensity of the blend bu	It little and its annliastion of	mant defeatable
mes constant changing almost in proportion to the time of engine operation,  5) the increase in iron content per time unit of engine operation on DL + 30%  t gas oil is 5% higher than for DL regular diesel fuel as a result of the larger  e of advance of feed, but this higher increase in iron content cannot appreciably  ct the motor capacity. Orig. art. hass 1 formula and 2 figures.	mutur capacity, 3) an addition of lig	the dag oil to regular DI in or.	
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CODE: 21/ SUBM DATE: 28Jun65	ct the motor capacity. Orig. art. ha	s: 1 formula and 2 figures.	o abbractanta
	CODE: 21/ SUBM DATE: 28Jun65		
- 1987年 - 1987年 - 「現代は本語の表現の表現という。」というは、「は、「は、「は、「は、「は、「は、「は、」」というには、「は、」というには、「は、「は、「は、」」というには、「は、「は、」というには、「は、「は、」というには、「は、」には、これ、これ、これ、これ、これ、これ、これ、これ、これ、これ、これ、これ、これ、			N. 5 ( ) A

# S/0196/64/000/002/B002/B002

ACCESSION NR: AR4027712

SOURCE: RZh. Elektrotekhnika i energetika, Abs. 2B5

AUTHOR: Naumov, A.L.; Sambur, N.I.

TITLE: Analytical formula for hysteresis loops of ferromagnetic materials

CITED SOURCE: Vistny\*k Ky\*yivs'k. un-tu, 1962, no.5, Ser. matem. ta mekhan., vy\*p. 2, 12-16

TOPIC TAGS: ferromagnetic material, hysteresis loop, hysteresis loop formula,

ferromagnetic material hysteresis loop TRANSLATION: A method is offered for plotting the hysteresis loop and magnetiza-

tion curve by using this type of approximation  $B=\mu H-\beta H^{2}\pm\varepsilon(H_{m}\pm H)$ .

Three parameters characterizing the material and its magnetization intensity are necessary for the plotting. These parameters are taken from experiments. The investigation results are given in the form of graphs. From the summary.

Date ACQ: 24Mar64

SUB CODE:

# SAMBURENKO, I.Z.

Study of the radioactivity of inland waters. Trudy GGI no.115:144-158 '64. (MIRA 18:9)

SAUTUFEIEG, I. Z.

1 A 246T77

USSR/Geography - Hydroelectric Plant J

Jan/Feb 53

"Change in the Salt Regime of the Dnepr-Bug Estuary in Connection With the Intake of Water by the Kakhovsk Hydroelectric Plant"

"Iz V-S Geograf Obshch" Vol 85, No 1, pp 121-123

Report presented by I.Z. Samburenko, Cand Technical Sciences, 24 Oct 1952 at a joint meeting of the Committee for Promoting the Transformation of Nature and the Commission of Water Resources of the All-Union Geographical Society. States that decrease of the run off of the Dnepr by water intake will change appreciably the salinity of water in the Dnepr-Bug estuary.

246T77

# FIRISYUK, V. R. [Fyrysiuk, V. R.]; SAMBURG, Ya.L.

Conveyor line for the processing of waterfowl in poultry plants.

Khar. prom. no.1:6-15 Ja-Mr \*63. (MIRA 16:4)

A. 10

1. Gesudarstvennyy komitet Soveta Ministrov UkrSSR po koordinatsii nauchno-issledovateliskikh rabot (for Firisyuk).
2. Poltavskiy mashinostroitelinyy zavod myasnogo oborudovaniya (for Samburg).

(Poultry plants—Equipment and supplies) (Assembly-line methods)

LUKS, Yu.A.; SAMBURGSKAYA, A.N.; ARKHANGEL'SKAYA, M.S. Fruits of Chaenomeles Maulei as a new source of pectin substances. (MIRA 15:7) Trudy Bot. inst. Ser. 6 no.8:177-183 '62. (Quince) (Plant introduction) (Pectin)

SAMBUROV, V.A.: FEDOROV, N.I. Multiple lens and mirror repeators of patterns. Tekst. prom. (MLRA 9:10)

(Textile printing)

CRLOVSKIY, N.I.; SAMBUROV, V.I.

In the All-Union Institute of Sugar Beets. Agrobiologia no.6:151-152 N-D '56. (MIRA 10:1)

(Sugar beets)

BUZANOV, I.F.; SAMBUROV, V.I.; YEMETS, G.M.; ORLOVSKIY, N.I.;
NEGOVSKIY, N.A.; FEDOROV, A.I.; GREKOV, M.A.; KURBATOV,
S.T.; MEL'NICHUK, A.N.; TONKAL', Ye.A.; GORNAYA, V.Ya.;
ROZHDESTVENSKIY, I.G.; SIDOROV, A.A.; KUDARENKO, F.F.;
BROVKINA, Ye.A.; GELLER, I.A.; DOBROTVORTSEVA, A.V.;
VARSHAVSKIY, B.Ya.; KUTSURUBA, N.V.; KUZ'MICH, S.I.;
PRESNYAKOV, P.V.; USHAKOV, A.F.; SHEVCHENKO, V.N.;
KHUCHUA, K.N.; PETRUKHA, Ye.I.; POZHAR, Z.A.; SHAPOVALOV,
P.T.; AREF'YEV, T.I.; GRIGOR'YEVA, A.I., red.; BALLOD,
A.I., tekhn. red.

[Sugar beets] Sakharnaia svekla. Moskva, Sel'khozizdat, 1963. 487 p. (MIRA 16:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sakharnoy svekly. 2. Nauchnyye sotrudniki Vsesoyuznogo nauchno-issledovatel'skogo instituta sakharnoy svekly (for all except Grigor'yeva, Ballod). (Sugar beets)

ZUBCHANINOV, V.V.; ASTROV, O.V.; VOLKOVA, O.D.; KURENKOV, Yu.V.; SAMBUROVA, I.V.; SAFRONOVA, L.I.; SYROVEGINA, G.G.; RADUSHINSKIY, L.A., kand. tekhn.nauk, retsenzent; TILLES, S.A., kand. tekhn. nauk, red.; PETUKHOVA, G.N., red. izd-va; DENKINA, N.F., tekhn. red.

[Economic efficiency of the automation of production processes in the textile industry] Ekonomicheskaia effektivncst avtomatizatsii proizvodstvennykh protsessov tekstil noi promyshlennosti. [By] Zubchaninov, V.V., i dr. Moskva, Mashgiz, 1962. 198 p. (MIRA 15:11)

(Textile industry—Costs) (Automation)

SAMBURSKAYA, L. I.; PROMYSLOV, M.Sh.

Incorporation of C14-1-glycine into the nucleic acids of the brain and brain tumors in mice. Vop. med. khim. 10 no.1:73-76
Ja-F 164. (MIRA 17:12)

l. Nauchno-issledovatel'skiy ordena Trudovogo Krasnogo Znameni institut neyrokhirurgii imeni akademika N.N. Burdenko AMN SSSR, Moskva.

SAIBURSKIY, S.S., insh.

Experience of a woodpulp plant. Bum. prom. 33 no.2:18-19 7 '58.

(MIRA 11:3)

1. Nachal'nik drevesnomassnogo savoda Tallinskogo tsellyulosnobumashnogo kombinata.

(Woodpulp industry--Equipment and supplies)

(Antomatic control)

SAMBUYEVA, A.S.; SVERCHINSKAYA, S.A.; SHIPITSYN, S.A.

**的话题,是是我们已经不够的时候,但是我们就是我们的人们的人,我们就是这个人的人们** 

Determination of zinc in soils by the spectral method. Zhur. anal. khim. 20 no.7:889-891 '65. (MIRA 18:9)

1. Zhdanov Irkutsk State University.

SAMBUYEVA, A.S.; SHIPITSYN, S.A.

Fluorination reactions used for the increase of spectral analysis sensitivity. Zav. lab. 31 no.9:1087-1089 '65. (MIRA 18:10)

1. Irkutskiy gosudarstvennyy universitet imeni Zhdanova.

S/139/62/000/003/011/021 E039/E420

AUTHOR:

Sambuyeva, A.S.

TITLE:

Determination of the concentration of copper in the

NaCl-Cu phosphors by a spectral analysis method

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Fizika, no.3, 1962, 79-81

TEXT: Natural rock salt is used and activation carried out at temperatures of 640, 670, 700, 720, 740 and 770°C by the method developed and described in 1934 and 1936 by S.A.Artsybyshev, Professor I.A.Parfianov and Docent S.A.Shipitsyn. Copper is introduced in the form of chloride and standard samples made up containing 1.00, 0.33, 0.10, 0.037, 0.014 and 0.0073% Cu. For analysis samples are introduced into a spark discharge between carbon electrodes and spectrographs obtained. Tin lines are used as a standard of comparison. The relation between the temperature of activation and concentration of copper is determined; at 640°C the concentration is about 0.12% and at 770°C about 0.2%. The value for the activation energy of Cu in rock salt is estimated at 0.63 ev. The experimentally Card 1/2

s/139/62/000/003/011/021

E039/E420 Determination of the concentration ...

determined values of concentration at different activation temperatures are compared with calculated values, reasonable agreement being obtained. The relation is exponential over the range investigated. There are 4 figures and 1 table.

ASSOCIATION: Irkutskiy gosuniversitet imeni A.A.Zhdanova

(Irkutsk State University imeni A.A.Zhdanov)

February 16, 1961 SUBMITTED:

Card 2/2

CIA-RDP86-00513R001446920013-1" APPROVED FOR RELEASE: 08/25/2000

ZELENOV, Anatoliy Borisovich; KARCCHKIN, Aleksandr Vasil'yevich; SAMCHELEYEV, Yuriy Pavlcvich; SHKOL'NIKOV, Viktor Ivanovich; DOLBNYA, V.T., kand.tekhn.nauk dots., otv.red. AIYAB'YEV, N.Z., red.

[Automated electric drive and servo systems] Avtomatizirovannyi elektroprivod i slediashchie sistemy. Kharikov, Izd-ve Kharikovskogo univ., 1965. 362 p. (MIRA 18:3)

### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446920013-1

KAROCHKIN, Aleksandr Vasil'yevich, kand.tekhn.nauk, dotsent; ZEIENOV, Anatoliy Borisovich, kand.tekhn.nauk, dotsent; SAMCHELEYEV, Yuriy Pavlovich, inzh.

Universal device for processing the oscillograms of reversing rolling mills. Izv. vys. ucheb. zav.; elektromekh. 6 no.5: 611-618 '63. (MIRA 16:9)

1. Kafedra elektrifikatsii i avtomatizatsii promyshlennykh predpriyatiy i ustanovok Kommunarskogo gornometallurgicheskogo instituta (for Karochkin, Samcheleyev). 2. Zaveduyushchiy kafedroy elektrifikatsii i avtomatizatsii promyshlennykh predpriyatiy i ustanovok Kommunarskogo gornometallurgicheskogo instituta (for Zelenov).

(Rolling mills-Electric driving) (Electric measurements)

SMIRNOV, V.A.; DEMCHUK, L.A.; SAMCHENKO, D.F.; ANTROPOV, L.I.

Determination of the zero points of diluted sodium amalgams by the method

of "zero solution." Report No.2. Trudy NPI 134:65-74 '62.

(MIRA 17:2)

Sanchenko, F.		
Loose housing expenditures.	of cattle is considerably Sil'.bud. 10 no.2:7-8	reducing the over-all F '60. (MIRA 13:5)

1. Predsedatel kolkhoza "Zori Kremlia" Bashtanskogo rayona, Nikolayevskoy oblasti. (Bashtanka District--Farm buildings)

RODYGINA, A.M. [Rodyhina, A.M.] prof.; MAKUKHINA, A.I., ordinator; SAMCHENKO, I.M., vrach

Etiology of blindness in childhood. Ped., akush. i gin. 23 no.1: 20-23 '61. (MIRA 14:6)

1. Kafedra oftal'mologii (zaveduyushchiy - prof. A.M.Rodygina [Rodyhina, A.M.]) L'vovskogo meditsinskogo instituta (direktor - prof. L.N.Kuzmenko).

(CHILDREN, BLIND)

s/020/60/133/006/028/031XX B016/B054

AUTHORS:

Rekasheva, A. F. and Samchenko, I. P.

TITLE:

Investigation With the Aid of Deuterium of the Mechanism of

Hydration on the Basis of Kucherov's Reaction

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 6,

pp. 1340-1343

TEXT: The authors report on the clarification of hitherto disputed details of the mechanism of Kucherov's reaction [ABSTRACTER'S NOTE: This reaction is not described in the text] by their experiments. The unclear details concern the following problems: 1) Which step of the reaction is decisive for the hydration rate of acetylene? 2) Do the water- or acid molecules participate in the transition complex of the slow step of the reaction (Refs. 2,3)? 3) Of what composition and structure are the mercury intermediate compounds of acetylene which give acetaldehyde by hydrolysis (Ref. 1)? In their experiments, the authors hydrated a) ordinary acetylene with D<sub>2</sub>O, and, on the other hand, b) deutero-acetylene with ordinary water. The resulting acetaldehyde was oxidized with potassium permanganate

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Investigation With the Aid of Deuterium of the Mechanism of Eydration on the Basis of Kucherov's Reaction S/020/60/133/006/028/031xx B016/B054

in  $\rm H_2SO_4$  solution, to give potassium acetate. Table 1 shows the results of test series a, namely the deuterium content in the hydrating solution before and after the experiment, in  $\rm CH_3CHO$ , and in  $\rm CH_3COOK$ . From a

comparison of these data, the authors conclude that the entire deuterium of acetaldehyde is concentrated in its methyl group. This proves that the deuterium content in the acetate, as compared with that in the aldehyde used, is increased by the elimination of hydrogen from the carbonyl group (by oxidation) at the ratio 4:3. Further, Table 1 shows that the deuterium content in acetaldehyde is not reduced to one-half, but to about one-third. This speaks in favor of a strong isotopic effect. For comparison, the authors hydrated deuterium-marked acetylene by ordinary water (test series b, Table 2). They found that here the isotopic effect was eliminated, since during hydration the acetylene molecules only add ordinary hydrogen. From Table 2, the authors conclude that the aldehyde group of the resulting acetaldehyde contains the same amount of deuterium as was present in the acetylene used (according to data in Table 1). Further, the authors conclude from Table 2 that here hydration is

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Investigation With the Aid of Deuterium of the Mechanism of Hydration on the Basis of Kucherov's Reaction S/020/60/133/006/028/031XX B016/B054

accompanied by a considerable exchange. Hence, it appears that the hydrogen of acetylene which was absorbed by the methyl group of the aldehyde was half substituted by the hydrogen of the medium during hydration. From the degree of exchange (Table 1) during hydration, the authors try to estimate the extent of the kinetic isotope exchange on the passage of hydrogen (from water or acid) to the acetylene molecules. According to current conceptions, two hydrogen atoms are added to acetylene in the formation of acetaldehyde. This is supposed to occur in two steps, one of which may be decisive for the rate of the process. In other words, only the passage of one hydrogen atom can be accompanied by an isotopic effect. The authors calculate the isotopic effect to be about 7.6. The existence of this effect proves clearly that the hydration rate is determined by the step of the passage of one of the hydrogen atoms from the water- (or acid-) molecules. Consequently, the latter molecules constitute part of the transition complex of the slow step. This conclusion contradicts conclusions drawn by R. M. Flid, I. I. Moiseyev, and Ye. M. Kalmykova (Ref.2), who maintained that the activation of acetylene constitutes the slow step of the process, which is not connected with a proton addition. The Card 3/4

Investigation With the Aid of Deuterium of the Mechanism of Hydration on the Basis of Kucherov's Reaction

S/020/60/133/006/028/031XX B0:6/B054

authors try to establish an agreement between the said contradiction and their own results with the aid of a scheme:

 $\begin{array}{c} \text{CH} = \text{CH} + \text{HgX}_2 & \text{rapid} \rightarrow \text{CH} = \text{CH} \cdot \text{HgX}_2 \\ \text{CH} = \text{CH} \cdot \text{HgX}_2 + \text{HOH slow} \rightarrow \text{CH}_2 = \text{CHOH} \cdot \text{HgX}_2 \\ \text{CH}_2 = \text{CHOH} \cdot \text{HgX}_2 + \text{HgO}^\dagger & \text{rapid} \rightarrow \text{CH}_2 = \text{CHOH} \cdot \text{HgO}^\dagger + \text{HgX}_2 \\ \end{array}$  $\begin{array}{c} \text{CH}_2 = \text{CHOH} \cdot \text{H}_3\text{O}^+ \text{ rapid} & \longrightarrow \text{CH}_2 = \text{CHOH}_2^+ + \text{H}_2\text{O} \\ \text{CH}_2 = \text{CHOH}_2^+ & \longrightarrow \text{CH}_3\text{CHO} + \text{H}^+ \end{array}$ 

There are 2 tables and 5 references: 4 Soviet and 1 German.

Institut fizicheskoy khimii im. L. V. Pisarzhevskogo ASSOCIATION:

Akademii nauk USSR (Institute of Physical Chemistry imeni L. V. Pisarzhevskiy of the Academy of Sciences UkrSSR)

February 29, 1960, by M. I. Kabachnik, Academician PRESENTED:

February 26, 1960 SUBMITTED:

Card 4/4

GRAGEROV, I.P.; REKASHEVA, A.F.; TARASENKO, A.M.; LEVIT, A.F.; SAMCHENKO, I.P.

Syntheses of certain organic compounds labeled with Ol8.

Zhur. ob. khim. 31 no.4:1113-1119 Ap '61. (MIRA 14:4)

1. Institut fizicheskoy khimii imeni L. V. Pisarzhevskogo Akademii nauk Ukrainskoy SSR. (Oxygen—Isotopes)

Mechanism underlying the Kucherov reaction. Part 2:
Isotopic effect in the reactions of acetylene with
acetic acid. Ukr.khim.zhur. 28 no.9:1054-1060 '62.

(MIRA 15:12)

1. Institut fizicheskoy khimii im. L.V. Pisarzhevskogo
AN UkrSSR.

(Acetylene)

(Deuterium compounds)

SAMCHENKO, I.P.; REKASHEVA, A.F.

Exchange kinetics of acetate groups between vinyl acetate and acetic acid. Zhur. fiz. khim. 39 no.4:859-864 Ap '65. (MIRA 19:1)

1. Institut fizicheskoy khimii imeni Pisarzhevskogo AN UkrSSR.

# REKASHEVA, A.F.; SAMCHENKO, I.P.

Mechanism of reductive degradation of dimethylamino derivatives of triphenylmethane. Zhur. ob. khim. 33 nc.5:1523-1529 My '63. (MIRA 16:6)

1. Institut fizicheskoy khimii imeni L.V. Pisarzhevskogo AN UKrSSR.

(Triphenylmethane dyes) (Reduction, Chemical)

DUDKO, D.A., kand.tekhn.nauk; KONASHKO, N.P., otv. za vypusk; SAMCHENKO, I.S., red.

[New possibilities for welding with a high-temperature arc, compressed by a gas stream] O novykh vozmoshnostiakh svarki vysokotemperaturnoi dugoi, sshatoi gasovym potokom. Kiev, Glavpoligrafizdat K-va kul'tury USSR, 1960. 11 p.

(MIRA 14:11)

1. Institut elektrosvarki im. Ye.O.Patona AN SSSE (for Dudko).
(Electric welding)

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GARBUZ, G.A.; KONASHKO, N.P., otv. za vyp.; SAMCHENKO, I.S., red.;

[Steel production in oxygen converters] Proizvodstvo stali v kislorodnykh konverterakh; tematicheskii obzor. Kiev, Gos.izd-vo tekhn.lit-ry USSR, 1963. 71 p. (MIRA 16:10) (Bessemer process) (Oxygen--Industrial applications)

SAMCHENKO, N.P.; STREL'TSOV, O.A.; RUSOV, M.T.

Effect of the conditions of reduction on the distribution of components on the surface layer of an iron catalyst for ammonia synthesis. Kin. i kat. 4 no.6:930-932 N-D 63. (MIRA 17:1)

1. Institut fizicheskoy khimii AN UkrSSR.

VI.ASENKO, V.M.; KUKHAR\*, L.A.; RUSOV, M.T.; SAMCHENKO, N.P.

BETTERS HIM THE THE PERSON OF THE PARTY OF T

Adsorption of hydrogen and carbon monoxide on a nickel catalyst. Kin. i kat. 5 no.2:337-344 Mr-Ap 164.

(MIRA 17:8)

1. Institut fizicheskoy khimii imeni Pisarzhevskogo AN UkrSSR.

29380_66 EWT(m)/EWP(t)/ETI IJP(c ACC NR: AP6019795	SOURCE CODE:	UR/0286/65/000/004	/0032/0032
INVENTOR: Braun, H. P.; Mirovskiy, E	. I.; Sevruk, B. A	.; Samchenko, V. G.;	
ORG: none			
TITIE: Non-nickel structural steel	Class 18, No 1683	21	
SOURCE: Byulleten' izobreteniy i tov	arnykh nnakov, no	4, 1965, 32	
TOPIC TAGS: structural steel, metal	property		
ABSTRACT: A non-nickel structural st properties is proposed which contains 0.01% (max) P, 0.01% (max) S, 0.8-1.2 has: 1 table. [JPRS]	12 0.18-0.24% C. C	.8-1.0% S1. 0.8-1.29	Mn,
SUB CODE: 11 / SUBM DATE: none			
Cord 1/1 CC		mc: 669.14.018.29	
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L 9632-66 EWT(m)/EWA(d)/T		1
ACC NR: AP5027707	SOURCE CODE: UR/1029/65/000/011/0024/0026	1.5
AUDIOD - Been W D - Court	ik, B. A.; Hirovskiy, B. I.; Samchenko, V. G.; El'kins,	1
T. P. 44.55		
manual A and a 11 and Manager	or Plant (Khar'kovskiy traktornyy zavod)	
ORG: USKhA; Khar Kov Tracto	or Plant (Khar'kovskiy traktornyy zavod)	
94,53		
TITLE: New 20KhGSVT case-ha		
깔기가 한 경쟁 병생하다는 그 모양함은	termicheskaya obrabotka metallov, no. 11, 1965, 24-26	
SOURCE: Metallovedeniye 1	[SIMICIESKAYA ODIADOCKA PROGRAMA	
	, steel, transmission gear, tensile strength, carburization	d,
TOPIC TAGS: case hardening	, steer, transmission Sear, semena	
tractor / 20KhGSVT steel	The sale of the sa	
	ribes the newly developed 20KhGSVT case-hardenable steel	
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	A PA PRO REGERES OF W AUGUITA ICAL AND TATALET TO	
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showed that this steel vere	case-hardened in a solid carburizer. The total time of	
gears of zomiovi		
1/2	UDC: 669.14.018.46	
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SUI	CODE	11,	, 13/	SUBM	DATE:	none/	ORIG	REF:	000/	OTH	REF:	000			
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SAMCHENKO, V., inzh.; CHERNYSHEV, A., inzh.; NIKITIN, N.

New use for the PK-2M cutter loader, Mast. ugl. 7 no.2:13-15 F '58.

(MIRA 11:3)

1. Instruktor peredovykh metodov truda normativno-issledovatel'skoy stantsii No.14 (for Nikitin).

(Goal min ing machinery)

CHERNYSHEV, A.V., inzh.; SAMCHENKO, V.V., inzh. Record speed of mining with use of cutter-leaders in the Moscow Basin. Shakht. stroi. no.8:21-23 Ag 158. (MIRA 11:9) (Moscow Basin--Coal mines and mining) (Coal mining machinery)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446920013-1"

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CHERNYSHEV, A.V., inzh.; SAMCHENKO, V.V., inzh.

One thousand six hundred and seventy meters of drift in one month. Shakht.stroi. no.3:25-28 Mr 159. (MIRA 12:4)

(Coal mines and mining)

### "APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446920013-1

SOV-21-58-9-13/28

AUTHORS:

Dumanskiy, A.V., Academician of the AS UkrSSR, Nekryach, Ye.

F. and Samchenko, Z.A.

TITLE:

Heat of Wetting and Hydration of Cations (Teploty smachiva-

niya i gidratatsiya kationov)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 9.

pp 966 - 969 (USSR)

ABSTRACT:

Different viewpoints on the effect of the nature of cations on the hydrophilic\_properties of clays and soils are given by Sergeyev /Ref.17, Gapon and Zuyev /Ref.27, Antipov-Karatayev /Ref.37, Janert /Ref.47, Sharov /Ref.57 and Ovcharenko /Ref.67. This problem was investigated by the authors by studying the heats of wetting salts of the same cations but with simpler anions. The following salts were studied:  ${\rm CaCO_3.~MgCO_3,~BaCO_3,~SrCO_3,~CaSO_4,~BaSO_4}$  and  ${\rm SrSO_4.~On~the}$ 

basis of investigating the heats of interaction with water of these bivalent salts, the cations of which are frequently contained in the composition of clay complexes, a conclusion was drawn that the hydrophilia of clays depends mainly on the magnitude of specific surface rather than on hydration of cations. Exchange cations, without directly affecting

Card 1/2

the hydrophilia, may change the structure of the micro-

Heat of Wetting and Hydration of Cations

SOV-21-58-9-13/28

aggregates of the particles and thereby change the magnitude

of their surface. There are 2 tables and 10 references,

8 of which are Soviet, 1 German and 1 unidentified.

Institut obshchey i neorganicheskoy khimii AN UkrSSR ASSOCIATION:

(Institute of General and Inorganic Chemistry of the

AS UkrSSR)

SUBMITTED:

April 3, 1958

NOTE:

Russian title and Russian names of individuals and insti-

tutions appearing in this article have been used in the trans-

literation.

1. Clays--Moisture factors 2. Soils--Moisture factors

4. Salts--Chemical reactions

3. Ions--Chemical effects

5. Salts--Thermal effects

Card 2/2

S/069/60/022/03/05/019 B004/B007

AUTHORS:

Nekryach, Ye. F., Samchenko, Z. A.

TITLE:

Sorption of Water Vapor and the Wetting Heat of Some

Polyamides \

PERIODICAL:

Kolloidnyy zhurnal, 1960, Vol. 22, No. 3, pp. 288 - 292

TEXT: It was the aim of the present paper to carry out a comparative investigation of the sorption and hydrophile properties of polycaprolactam (Capron) and polyhexamethyleneadipamide (Anid). In these compounds one carbamide group corresponds to the same number of methylene groups, but they differ in structure. Capron was supplied by the Kiyevskiy zavod iskusstvennogo shelka (Kiyev Rayon Factory) and Anid by the Vsesoyuznyy nauchno-issledovatel skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Synthetic Fibers). First, powders of these resins were produced partly by mechanical grinding and partly by precipitation from a solution of CaCl in methanol.

The sorption isothermal lines were determined pycnometrically at 20°C

Card 1/3

Sorption of Water Vapor and the Wetting Heat of Some Polyamides

Card 2/3

GUTTER CHEST PROPERTIES AGAIN HES ROAGH

S/069/60/022/03/05/019 B004/B007

(Ref. 6), the wetting heats at 20°C in an adiabatic calorimeter (Refs. 7-9). A table shows (for Capron) the dependence of the wetting heat on the manner of producing the powder (mechanically ground or precipitated) and on the manner of drying (in air at 110°C, in a vacuum at 60 or 100°C). Further experiments were carried out only with precipitates which had been dried in a vacuum at 60°C. The following experimental data are given: Fig. 1: Isothermal lines of the sorption of water vapor by Capron and Anid; Fig. 2: Wetting heats; Fig. 3: Differential wetting heats. Herefrom the authors draw the following conclusions: 1) At a relative moisture p/p of up to 0.85 hardly any difference is observed between the isothermal lines of the sorption of water vapor by Capron or Anid. 2) No difference was further observed between the wetting heats of the two substances. 3) The calculated differential wetting heats  $(q_{diff})$  show that the curve  $q_{diff} = f(x)$  has two sections with constant values, which correspond to the hydration heats of the free carbamide groups as well as to the heat liberated by other processes. The same quantity of bound water corresponds to one carbamide group of Capron or Anid, respectively. The structural difference

Sorption of Water Vapor and the Wetting Heat S/069/60/022/03/05/019 of Some Polyamides S/069/60/022/03/05/019

between the two polyamides is without influence upon their hydrophile nature. 4) Determination of the quantity  $x_c$  of bound water from the equation  $x_c = q_{integr}/80$  leads to the same values, irrespective of the fact whether for  $q_{integr}$  the experimental data or the values calculated from the change in  $q_{diff}$  are put. The authors mention a paper by N. V. Mikhaylov and E. Z. Faynberg (Ref. 3), and thank A. V. Dumanskiy, Academician of the AS UkrSSR, for his advice. There are 3 figures, 1 table, and 11 references: 10 Soviet and 1 American.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii AN USSR, Kiyev (Institute of General and Inorganic Chemistry of the AS UkrSSR, Kiyev)

SUBMITTED: February 25, 1960

Card 3/3

NEKRYACH, Ye.F.; SAMCHENKO, Z.A. Sorption of water wapor and the heat of wetting of silica gels. Koll.zhur. 22 no.3:293-296 My-Je 160. (MIRA 13:7) 1. Institut obshchey i neorganicheskoy khimii AN USSR, Kiyev.

(Silica) (Sorption) (Heat of wetting)

NEKRYACH, Ye.F.; SAMCHENKO, Z.A. Sorption of water vapor by hydrophilic high polymers. Part 3: Sorption isotherms and heats of wetting of cellulose acetate. Ukr. khim. zhur. 26 no.6:700-706 '60. (MIRA 14:1)

1. Institut obshchey i neorganicheskoy khimii AN USSR. (Cellulose) (Heat of wetting)

NEKRYACH, Ye. F.; SAMCHENKO, Z. A.; Prinimala uchastiye AVRAMORUK, L. P.

Sorption of water vapors by hydrophilic high polymers. Part 9:
 Investigation of the structural changes of polycaprolactam based on sorption and thermochemical data. Ukr. knim. zhur. 28 no.6:
 (MRA 15:10)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

(Nylon) (Sorption) (Thermochemistry)

NEKRYACH, Ye.F.; SAMCHENKO, Z.A.; DUMANSKIY, A.V.

Sorption isotherms and heats of wetting of polyhexamethylene adipamide. Koll.zhur. 25 no.6:666-670 N-D '63. (MIRA 17:1)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR, Kiyev.

NEKRYACH, Ye.F.; SAMCHENKO, Z.A.

Study of structural changes in polyhexamethylene adipamide by the method of sorption and thermochemical measurements. Ukr. khim. zhur. 29 no.11:1151-1155 '63. (MIRA 16:12)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

SAMCHENKO, Z.A. [Samchenko, Z.O.]; KUKOVSKIY, Ye.G. [Kukovs'kyi, IE.H.];

NEKRYACH, Ye.F. [Nekriach, IE.F.]

X-ray diffraction study of the structure of polyundecanamide.

(MIRA 18:2)

Dop. AN URSR no.2:229-231 '65.

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR.

L 63834-65 EWT(m)/EPF(c)/EWP(j)/EWA(c)/T RM

ACCESSION NR: AP5020230

UR/0069/65/027/004/0578/0582 541.183.25:541.64

AUTHORS: Nekryach, Ye. F.; Samchenko, Z. A.

TITLE: Sorption isotherms and heats of wetting of polyenanthamide

SOURCE: Kolloidnyy zhurnal, v. 27, no. 4, 1965, 578-582

TOPIC TAGS: polyenanthamide, sorption kinetics, sorption, wetting agent

ABSTRACT: The work was undertaken to extend the currently available information on the thermodynamics of sorption and wetting of polyenanthamide. Since the authors (Mr. khim. zh. 28, 614, 1962) have shown that the hydrophylic properties of polyamides depend on their method of preparation, five different specimens of polyenanthamide, obtained by the following methods, were studied. E. mech. was obtained by mechanical crushing of solid polymer; E. s. — by precipitation from a hot solution—20% CaCl<sub>2</sub> in methanol; E. mv. was precipitated by the addition

of small quantities of methanol and water to the above solution; E. met. was precipitated by adding methanol to a formic acid solution of the polymer; and E. ac was obtained by addition of acetone to a formic acid solution of the polymer. The experimental results are shown graphically. From these results it is

Card 1/2

L 63834-65
ACCESSION NR: AP5020230

concluded that one water molecule is combined with two -NHCO- groups. Orig. art. has: 3 graphs.

ASCOCIATION: Institut obshchey i neorganicheskoy khimii AN UkrSSR, Kiyev (Institute for Seneral and Inorganic Chemistry, AN UKrSSR)

SUBNITTED: 23Sep6?

ENCL: 00

SUB COLE: 9C

NC FEF SOV: 010

OTHER: 001

KERRYOH, 16.F., SANCIPINO, Z.A.

Sorption isotherms and heats of wetting of polyundecanamide. Soil. whur. 27 no.6:850-853 NLD '65. (NTAA 18:12)

i. Institut obsnehey i neorganicheskoy khimii AN Ukrash, Kayeva Submitted July 13, 1964.

NEKRYACH, Ye.F.; SAMCHENKO, Z.A.

Study of structural changes in polyenanthamid by measuring water vapor sorption. Ukr.khim.zhur. 31 no.5:461-464 '65. (MIRA 18:12)

1. Institut obshchey i neorganicheskoy khimii AN UkrSSR. Submitted Sept. 21, 1963.

BRAUN, M.P.; SEVRUK, B.A.; MIROVSKIY, E.I.; SAMCHENKO, V.G.; EL'KINA, T.P.

New case-hardenable 20GSVT steel. Metalloved. 1 term. obr. met. no.11:24-26 N '65. (MIRA 18:12)

1. Ukrainskaya seliskokhozyaystvennaya akademiya i Kharikovskiy traktornyy zavod.

ZAGRISHEV, A.A., SAMCHIK, L.T.

Growing rate of wool in fine-wool hybrid sheep. Agrobiologiia no.6:101105 N-D '56. (MERA 10:1)

1. Nauchno-issledovatel'skiy institut sel'skogo khozyaystva TugoVostoka, Saratov.

(Sheep) (Wool)

SAMCHUK, Ivan Anikeyevich, polkovnik; LUPACH, V.S., red.; SRIENIS, N.V., tekhn. red.

[The 13th Guards; combat history of the 13th Guards Poltava Order of Lenin Fifle Division 1941-1945, twice-decorated with the Order of the Red Banner and the Orders of Suvorov and Kutuzov] Trinadtsataia gvardeiskaia; boevoi put' Trinadtsatoi gvardeiskoi Poltavskoi ordena Lenina dvazhdy Krasnoznamennoi ordenov Suvorova i Kutuzova strelkovoi divizii, 1941-1945. Moskva, Voen.izd-vo M-va oborony SSSR, 1962. 293 p.

(MIRA 15:3)

(Russia-Army-History) (World War, 1939-1945)

SAMCHUK, Ivan Anikeyevich; YEZHAKOV, V.I., red.

[Foltava Guards Division; a short sketch of the combat record of the 97th Poltava Guards Red Banner Rifle Division decorated with the Orders of Suvorov and Bohdan Khmel'nits'kyi] Gvardeiskaia Poltavskaia; kratkii ocherk o boevom puti 97-i gvardeiskoi Poltavskoi Krasnoznamennoi ordenov Suvorova i Bogdana Khmel'nitskogo strelkovoi divizii. Moskva, Voenizdat, 1965. 150 p. (MIRA 18:5)

SAMCOVIC. Borislav, inz. (Loznica, Preduzece "Viskoza")

Properties of viscous cords, and use of domestic cords in the manufacture of automobile tires. Tehnika Jug:Suppl.:Klektrotehnika 13 no.1:143-147 Ja \*63.

1. Pomocnik generalnog direktora preduzeca "Viskoza", Loznica.

SAMCOVIC, Borislav, inz. (Loznica, Mose Pijade 15)

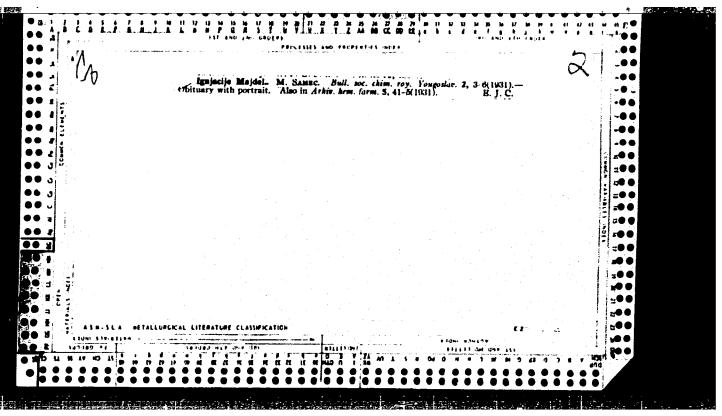
Unwoven textiles. Tehnika Jug 18 no.7:Supplement: Hemindus-trija 17 no.7:1336b-1336e Jl'63.

1. Pomocnik generalnog direktora fabrike "Viskoza", Loznica.

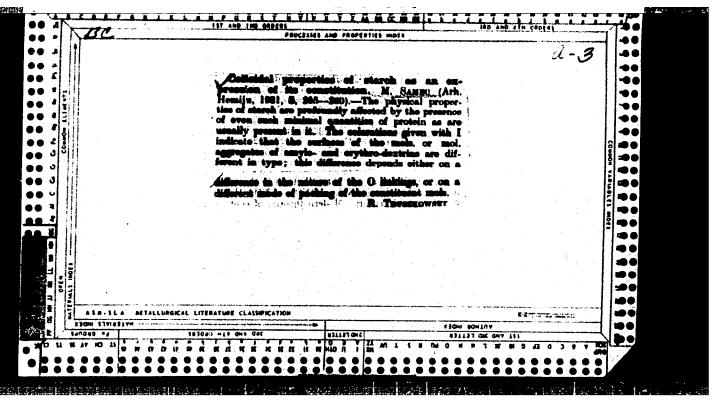
SUCCANOV, K.M.; KHALIFA-ZADE, Ch.M.; SAMEDOV, S.S.

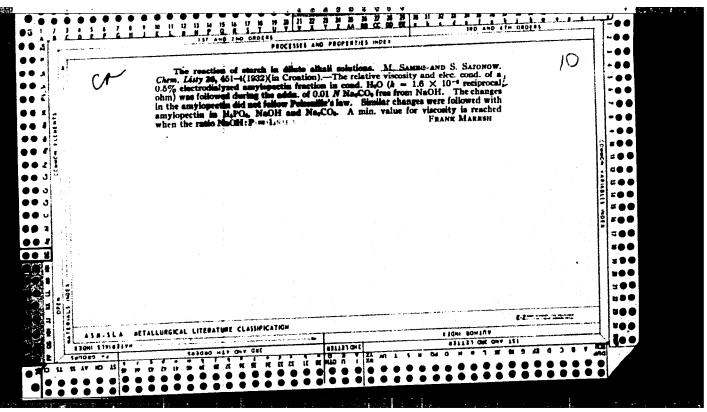
Stratigraphy of the Jarrasic sediments of the Kuma oil- and gasbearing region. Izv.vys.ucheb.zav.; neft' i gaz 7 no.4:10-13 164. (MIRA 17:5)

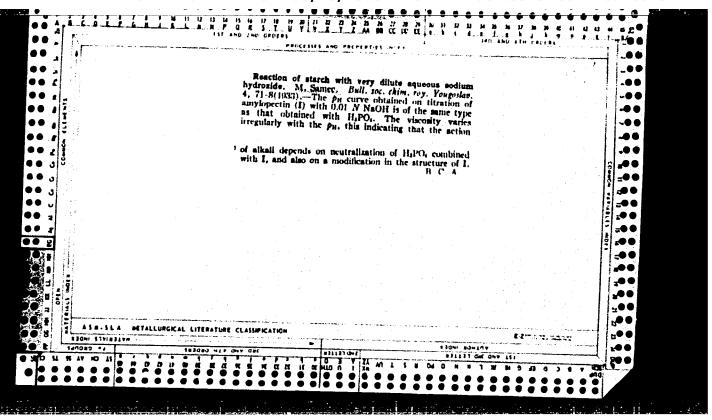
1. Azerbaydzhanskiy gosudarstvennyy universitet imeni Kirova.

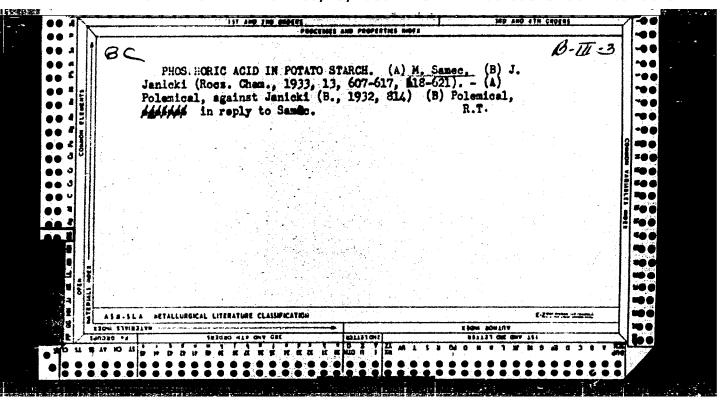


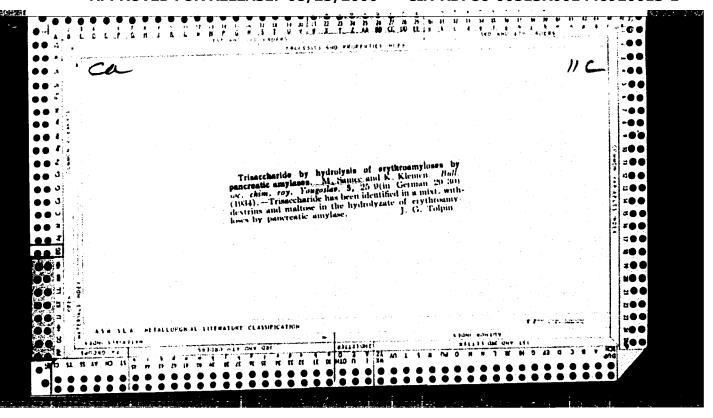
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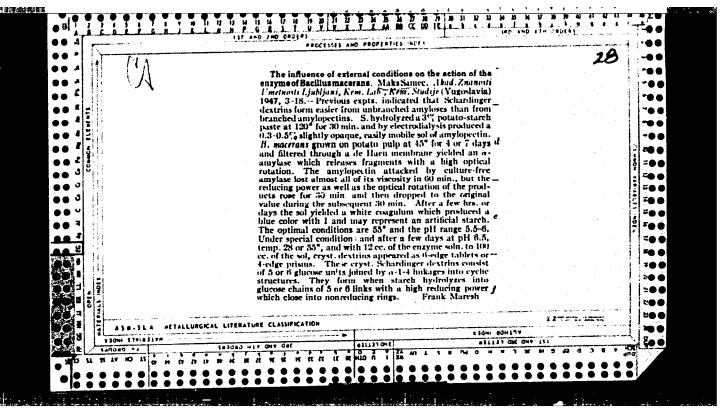


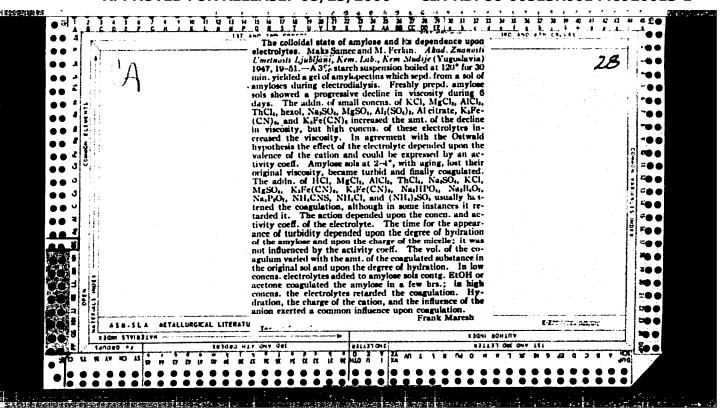


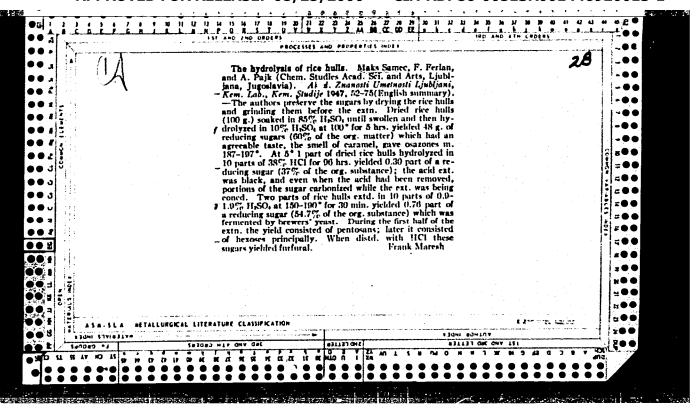


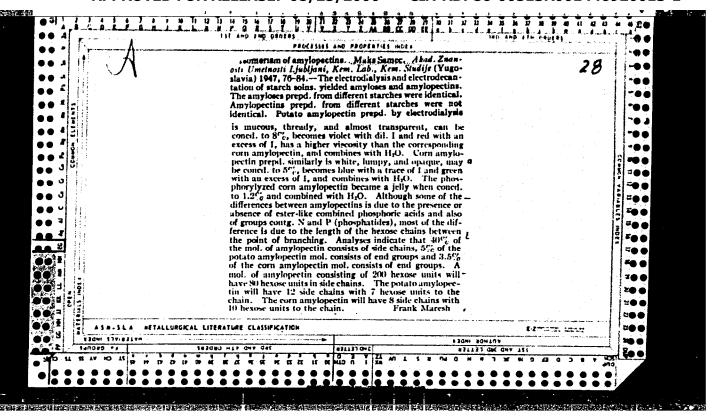








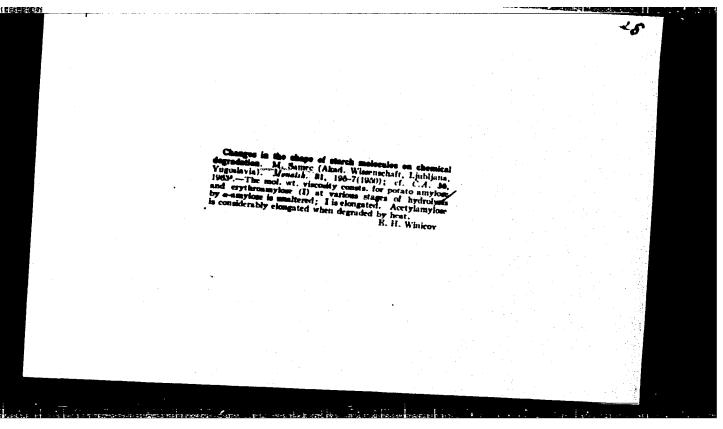




SAMEC, MAKSIMILIJAN.

Kemicne studje. V Ljudljani, Akademija znanosti in umetnosti, 1947. 84 p.

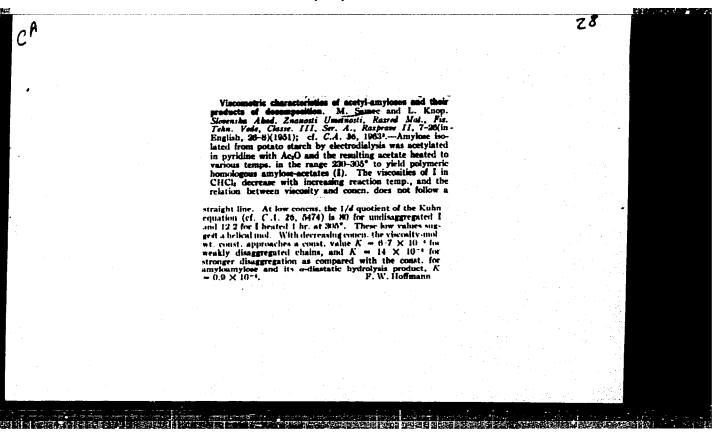
SO: EEAL, Vol 5, No. 7 July 1956

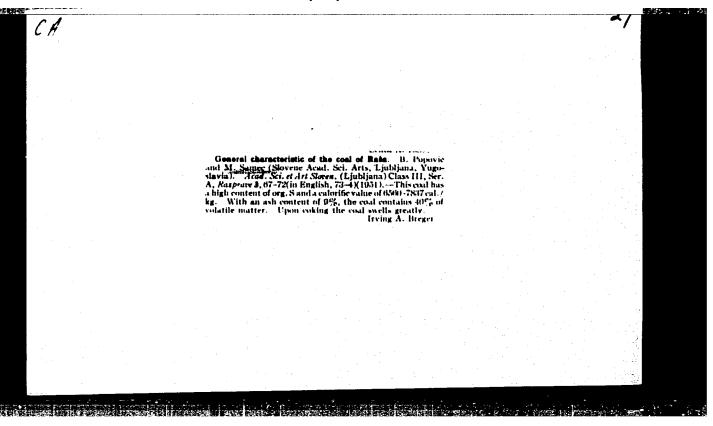


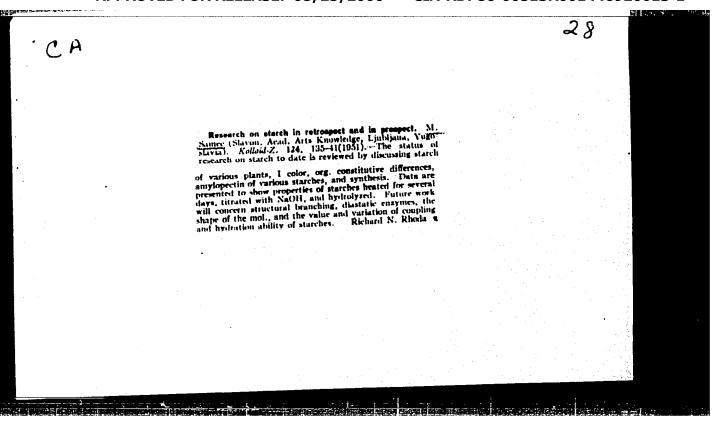
Chemical Abstracts Vol. 48 No. 5 Mar. 10, 1954 Sugar, Starch, and Gums

16: 6

Change in molecular structure in the ensymic degradation of starch. Maks Samec Union Inst. Slovenlan Acad. Arts Sci., Liublana. Kem. Zbornik 1951, 7-0; ci. C.A. 45, 883a.—Amylose and erythroamylose were subjected to hydrolysis with a-amylase, and the viscosity and mol. wt. of the resulting products were detd. From these data the value of the const.  $K_m$  from Staudinger's equation was caled. For the hydrolysis of amylose  $K_m = 0.90 \times 10^{-4}$  and for erythroamylose it is  $0.1-0.2 \times 10^{-4}$ . From these values it concluded that the structure of the erythroamylose changes from a circular structure to a chainlike form. J. R. L.

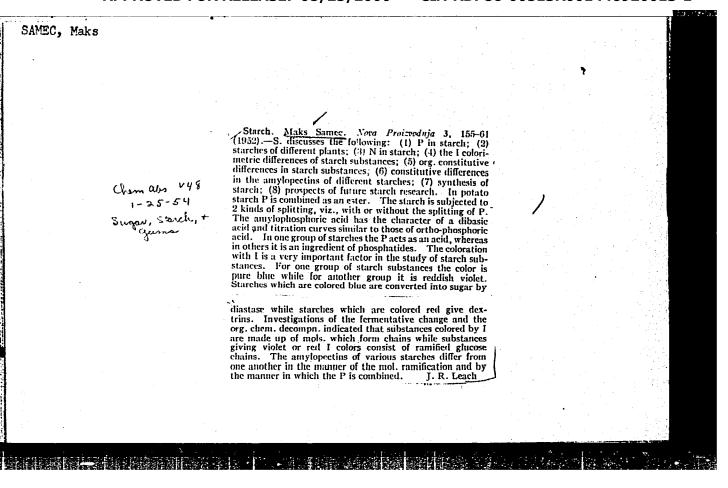


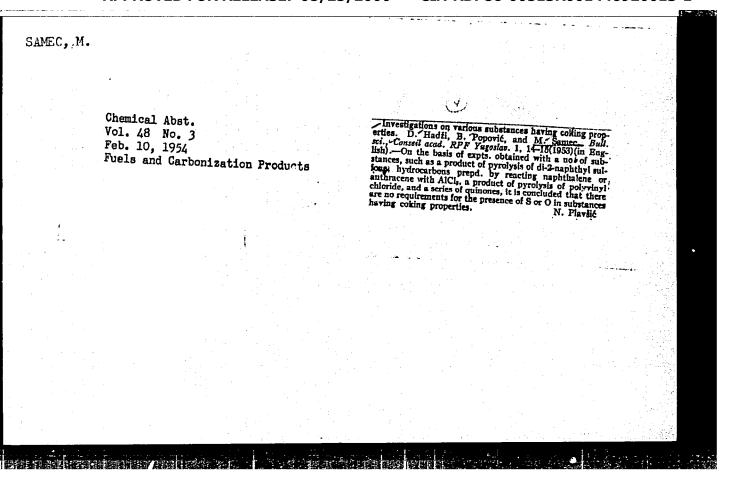


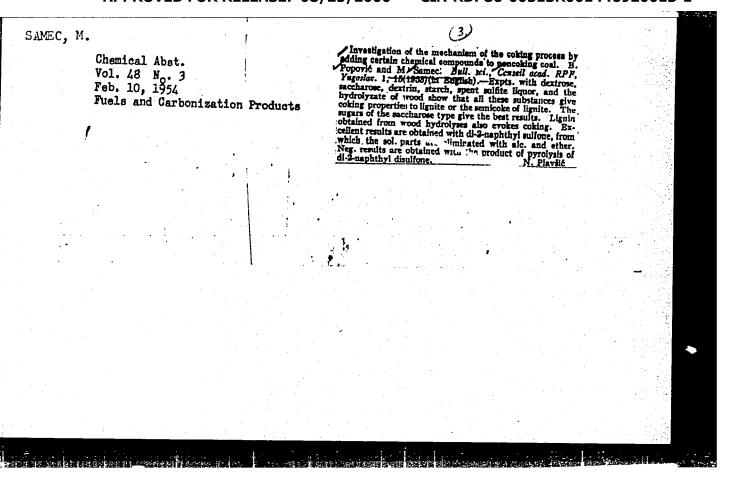


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meth Slove: 45–51 Mine	stermination of the total sulfur in coal by the Rothe tod. M. Samme and S. Skiedar. Acad. No. of Ass. M. (Ljubijana). Chas. III., Ser. A. Dissertationes No. 3, (1953) (English summary).—Coal from the Rasa, because of its high-S content, has made it necessary to		
this meth with time-	e a new and more reliable method for its data. For purpose the Rothe method has been adopted. This tood is based upon the evidation of the org. substance hot HNO, in the presence of MgO. Because of the consuming nature of the process and the consumption or deals, this process is not suitable for routing analyses.	1.5	
Howe	ever, it can be useful in cases where other methods give results. J. Rovtar Lench		
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YUGOSLAVIA/Chemical Technology - Chemical Products and Their Applications - Treatment of Solid Fuels.

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Abs Jour

: Ref Zhur - Khimiya, No 11, 1958, 37476

Author

: Gasparini, A., Samec, M., Skledar, S.

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Title : A

: Ash Content Determination of Sulfur-Rich Coals and Cokes

Orig Pub

: Razpr. Slov. Akad. znan in umetn. Razr. mat., Fiz. in

tehn. vede, 1953, 5, No 4, 55-72

Abstract

: A method for ash content determination of "Rasha" (Yugoslavia) coals containing up to 10% of S has been worked out. It has been established that ash content should be determined in an electric muffle furnace at 750°C. The weighted portion should be placed in a hollow dish and introduced into a cold muffle furnace, in order to avoid excessively rapid blowing up of the coal, and left exposed to air in the initial stage of heating.

Heating time was 3 hours at 750°C.

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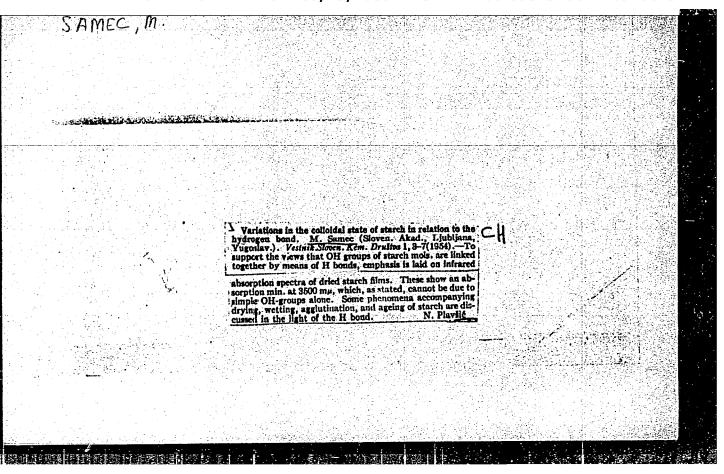
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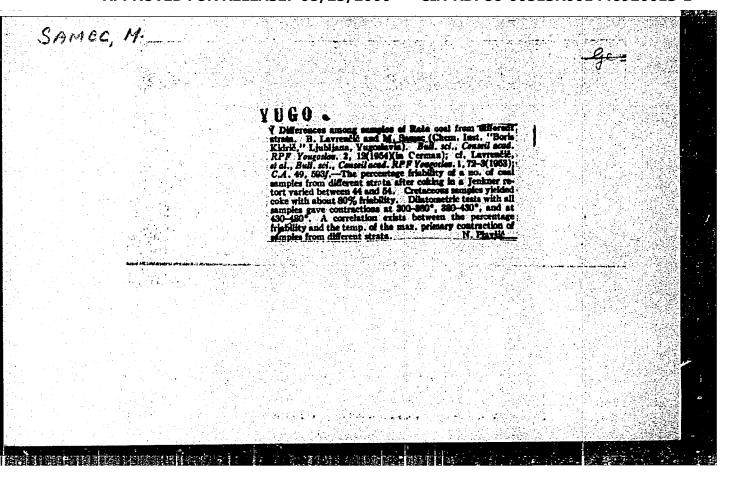
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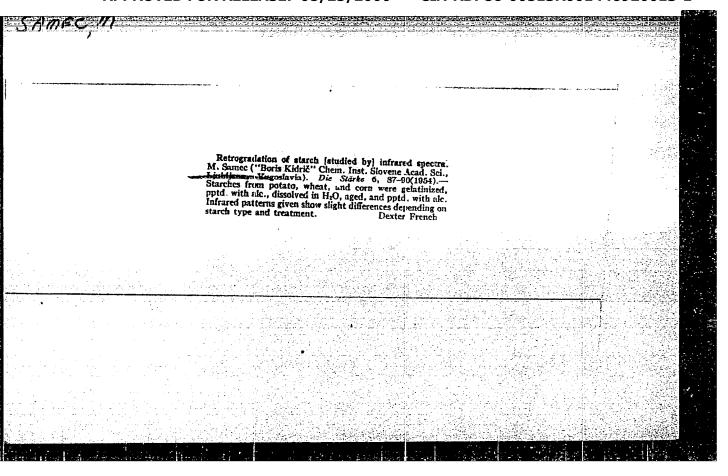
Slovenska Akad. Znanosti Umetnosti, Ljubljana, Jugoslavia

"Hydrogen bonds in starch."

Die Starke 5, 105-8 (1953).







Chemical Abstracts May 25, 1954 Fuels and Carbonization Products

SAIEC, M.

The carbonization of noncaking coals. D. Haddi, R. Kavčić, and M. Sance (Slovakian Acad. Sci., Ljubljana, Yugoslavia). Bremishif-Cham. 35, 44-7(1954).—With a view to clarifying the mechanism of carbonization, the carbonization of several org. compds. was studied. The first compd. tested was di-2-naphthyl sulfone, which is noncaking in the pure condition, but, when dowly heated, yields a pitch with good caking properties. The 1,2-naphthoquinone has excellent caking properties. The 1,2-naphthoquinone has excellent caking properties; weaker but still good caking properties are possessed by 4-hydroxynaphthyl-1,2-naphthoquinone. Stilbenequinone carbonizes without melting; anthraquinone, tetrahydroanthraquinone, and other quinones sublime. Caking properties are possessed by sucrose, gelatin, and weakly caking properties by asparagine and the hippuric acids. A very strongly caking pitch can be made by the condensation of naphthalese with AlCls; this has soly, characteristics similar to those of the so-called asphalts. The infrared spectra were detd, for the compds, known to be caking. Relative to the reaction between the binding material and the diluent, it is known that asphalts can evolve H under suitable comditions, and that coals can react with H. The hydrogenation of lignite yields a material which not only has caking properties, but is also capable for forming a solid coke with untreated lignite.

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